



## R.E. Prescott Co., Inc.

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**Water Conservation Plan  
Fitzgerald Estates  
Proposed Small Community Water System  
Newton, NH  
March 23, 2006**

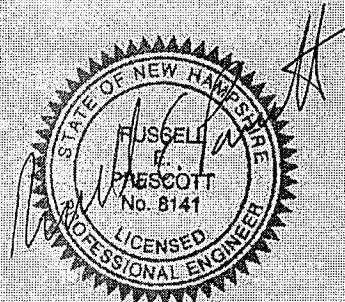
**PROJECT NAME:** Fitzgerald Estates

**TOWN/CITY:** Newton, NH

**EPA ID #:** New System

**SUBMITTED TO:**

Water Conservation Plans  
Small Community Well Siting Program  
DES, Water Supply Engineering Bureau  
Post Office Box 95  
Concord, NH 03302-0095



**Note:** Copy of this projects New Well Siting Report  
is on file at the above address for review.

Town of Newton  
Raymond D. Thayer, Clerk  
P.O. Box 375  
Newton, NH 03858  
With copies for:  
Tricia McCarthy, Newton Conservation Commission  
Mary Allen, Newton Planning Board

Rockingham Planning Commission  
Glenn Greenwood, Assistant Director  
156 Water Street  
Exeter, NH 03833

*Rec'd via  
email  
3/23/06*



## **PURPOSE:**

This plan provides the information needed for small community water systems to meet the reporting requirements of Env-Ws 390, *Water Conservation Rules*. Once completed, this plan can fulfill the requirements of Env-Ws 390.10. A summary of the rule is attached and the rule is available at [www.des.state.nh.us/Rules/pdf/Env-Ws390.pdf](http://www.des.state.nh.us/Rules/pdf/Env-Ws390.pdf)

## **1.0 GENERAL INFORMATION**

### **1.1 Project Contacts / System Ownership**

#### **1.1a Project Contact**

Russell E. Prescott, P.E.  
10 Railroad Ave.  
Exeter, NH 03833  
1-603-772-4321

#### **1.1b Project Owner**

Father & Son Construction  
85 South Main Street  
Newton, NH 03858  
1-603-382-1669

#### **1.1c Person responsible for completing the activities outlined in this plan.**

Water conservation plan activities will be conducted by or supervised by the future certified water system operator.

#### **1.1d Ownership**

At this time the current ownership of the water system will be the same after build out.



## **2.0 METERING AND LEAK DETECTION**

### **2.1 New Small Community Water System**

This proposed new small CWS shall install properly sized water meters for each 1-bedroom unit and each well source in accordance with AWWA standards. In selecting, installing, and maintaining water meters, the water system will comply with procedures and protocols described in "Manual of Water Supply Practices, Water Meters", document AWWA M6, available from the American Water Works Association at [www.awwa.org/bookstore](http://www.awwa.org/bookstore)

Each unit water meter will be read every 90 days and each source water meter will be read every 30 days. A log of water use will be maintained for water audit and leak detection in accordance with AWWA M36.

Each year a water audit will be conducted and in the case of leak detection such leak shall be repaired within 60 days. At the time of the audit if the percentage of unaccounted for water exceeds 15% of well volume the water system will submit a response plan to NHDES within 60 days. This plan will identify how the water system intends to reduce the percentage of unaccounted for water use to below 15% within 2 years, except for detected leaks, which shall be repaired within 60 days. Upon NHDES approval the system shall implement the plan.

This work shall be done or supervised by the future water system certified operator.

## **3.0 PRESSURE REDUCTION**

To conserve water, pressure reduction for this new CWS is technically feasible, consistent with industry standards, and consistent with public health and safety considerations. All pressure reduction measures will meet the requirements of Env-Ws 372, Design Standards for Small Community Public Water Systems.

The minimal elevation changes for this CWS allows the pump house to operate at a reduced pressure setting for the whole system.

## **4.0 CONSERVATION RATE STRUCTURE**

To conserve water the unit price of water shall promote water conservation by possibly increasing the cost per unit volume with increased consumption.

## 5.0 PUBLIC NOTIFICATION

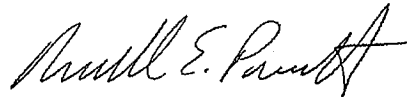
A copy of this report via certified mail has been sent to the town of Newton, NH and to the Rockingham Planning Commission along with a copy of a summary of the requirements of Env-Ws 390. A cover letter was written to request that the town of Newton, NH amend any site plan submitted to them for review so that it reflects the requirements of Env-Ws 390 and promotes water conservation landscaping principals.

The names and addresses of those receiving public notification are on the cover page of this document. Copies of the cover letter sent to the governing boards and a copy of the certified mail receipts are enclosed. "Water Conservation at Home" educational outreach material was also mailed.

## Section 6.0 EDUCATIONAL OUTREACH INITIATIVES

Implemented immediately upon approval of the conservation plan pertinent water efficiency fact sheets that can be found at the NHDES website listed will be included with wellhead protection program educational mailings as required by Env-Ws 378.18 or with the water system service bills. Other outreach initiatives will include water system or homeowner's association newsletters, posting of water conservation fact sheets in public areas used by water system customers, or any other initiative that meets the intent of the rules. The person responsible for the Conservation Program will be the water system operator or supervised by the water system operator. A typical educational outreach fact sheet is attached.

Prepared By,  
R. E. Prescott Co. Inc.



Russell E. Prescott, P. E.